

Amendments to the claims:

Please cancel claim 4, amend claims 1, 3, 8, 18 and 19, and add new 20.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. **(currently amended)** A composition comprising at least two synthetic oligonucleotides,

wherein a first oligonucleotide is linked to a first binding partner and a second oligonucleotide is linked to a second binding partner, the first and second binding partners being selected from the group consisting of cyclodextrin[[,]] and adamantane, and streptavidin[[,]] and biotin,

wherein each oligonucleotide comprises a region complementary to a tandem, non-overlapping region of a target nucleic acid, the tandem non-overlapping regions of the target nucleic acid being separated by 0 to 3 bases,

and wherein the target nucleic acid is an mRNA, a single-stranded viral RNA, or a single-stranded viral DNA.

2. **(original)** The composition of claim 1, wherein the oligonucleotides are from 9 to 25 nucleotides in length.

3. **(currently amended)** The composition of claim 1, wherein at least one of the oligonucleotides ~~is modified~~ comprises a synthetic linkage other than a phosphodiester linkage between the 5' end of one nucleotide and the 3' end of another nucleotide.

4. **(canceled)**

5. **(original)** The composition of claim 3, wherein at least one of the oligonucleotides contains at least one phosphorothioate internucleoside linkage.

6. **(withdrawn)** A method of inhibiting the expression of a nucleic acid in vitro comprising the step of treating the nucleic acid with the composition of claim 1.

7. **(withdrawn)** The method of claim 6, wherein the first and second oligonucleotides are complementary to an HIV DNA and/or HIV RNA.

8. **(currently amended)** A dimeric structure comprising a first synthetic oligonucleotide and a second synthetic oligonucleotide, each oligonucleotide comprising a region complementary to one of tandem, non-overlapping regions of a target nucleic acid, the target nucleic acid being an mRNA, a single-stranded viral RNA, or a single-stranded viral DNA,

the first oligonucleotide having a first binding partner attached to a 3' terminus,

the second oligonucleotide having a second binding partner attached to a 5' terminus, and

wherein the first and second binding partners are selected from the group consisting of cyclodextrin[[,]] and adamantane, and biotin[[,]] and streptavidin, and

wherein the first and second binding partners are bound as a dimer when the first and second oligonucleotides are hybridized to the target nucleic acid.

9. **(original)** The duplex structure of claim 8, wherein the first and second oligonucleotides are complementary to one of tandem regions of the target nucleic acid that are separated by 0 to 3 bases.

10. **(original)** The duplex structure of claim 8, wherein at least one of the oligonucleotides is modified.

11. **(original)** The duplex structure of claim 10, wherein at least one of the oligonucleotides contains at least one non-phosphodiester internucleoside linkage.

12. **(original)** The duplex structure of claim 10, wherein at least one of the oligonucleotides contains at least one phosphorothioate internucleoside linkage.

13. **(original)** A ternary structure comprising the duplex structure of claim 8 and a target nucleic acid to which regions of the first and second cooperative oligonucleotides are complementary.

14. **(withdrawn)** A method of inhibiting the expression of a nucleic acid in vitro comprising the step of treating the nucleic acid with the structure of claim 8.

15. **(withdrawn)** The method of claim 14, wherein the first and second oligonucleotides are complementary to an HIV DNA and/or HIV RNA.

16. **(original)** A pharmaceutical formulation comprising the composition of claim 1.

17. **(original)** A pharmaceutical formulation comprising the structure of claim 8.

18. **(currently amended)** A pharmaceutical ~~formulation~~ composition comprising a pharmaceutically acceptable carrier and at least two synthetic cooperative oligonucleotides, wherein each oligonucleotide comprises a region complementary to a tandem, non-overlapping region of a target nucleic acid, and a dimerization domain at a terminus of each oligonucleotide,

the tandem, non-overlapping regions of the target nucleic acid being separated by 0 to 3 base,

the dimerization domains of the oligonucleotides being complementary to each other, and

the target nucleic acid being an mRNA, a single-stranded viral DNA, or a single-stranded viral RNA.

19. **(currently amended)** A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a duplex structure comprising a first and a second synthetic oligonucleotide, wherein each oligonucleotide comprises a region complementary to a tandem, non-overlapping region of a target nucleic acid,

the tandem, non-overlapping regions of the target nucleic acid being separated by 0-1 base,

the target nucleic acid being an mRNA, a single-stranded viral DNA, or a single-stranded viral RNA, and

the first oligonucleotide having a terminal dimerization domain complementary and hybridized to the dimerization domain of the second oligonucleotide when the first and second oligonucleotides are hybridized to the target nucleic acid.

20. **(new)** The composition of claim 3, comprising a synthetic linkage selected from the group consisting of alkylphosphonates, phosphorothioates, phosphorodithioates, phosphate esters,

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alkylphosphonothioates, phosphoramidates, phosphoramidites, carbamates, carbonates, phosphate esters, acetamides, and carboxymethyl esters.